

# Year 7 Mathematics Yearly Overview

2013-2014 (Updated to 25 October, 2013)

Week	Date	Branches and topic	Remarks
1	26-Aug to 30-Aug	<b>Orientation:</b> Essential agreement Goal Setting Develop your Math Binder	26/8: Term 1 start 26-28/8: Half day school (8:25-12:00) 28/8: Joint school assembly (8:25-9:30)
2	2-Sep to 6-Sep	<b>Directed numbers</b> Why negative?	2-3/9: Students photos
3	9-Sep to 13-Sep	Inquiry into different types of number Concepts of directed number (size, magnitude and opposites) Directed number and the number line Using number line to add and subtract Adding and subtracting negatives	
4	16-Sep to 20-Sep	Multiplying and dividing directed numbers Mixed operations and solving problems of directed numbers Using your calculator (New Trend Ch 1, H&H MYP 1 Ch 13, Mathletic workbook)	19/9: House Music Day 20/9: Day after Mid-Autumn Festival
5	23-Sep to 27-Sep	<b>Coordinate Geometry</b> Ordered pairs Rectangular Coordinate system (draw and plot points) Distant between two points (straight line only) Areas of polygon *Polar coordinate system	Lose 1 lesson (Typhoon 8)  30/9: National Day Joint Assembly 1/10: National Day
6	30-Sep to 4-Oct	*Transformations on a rectangular coordinate plane Real life application of using coordinate geometry (Treasure Map) (New Trend Ch 9, H&H MYP 1 Ch 4 & 21, Mathletic workbook) # Assessment 1 (A C) – Treasure Map: The week of 30 Sep	Teaching period including treasure map assessment (26/8-4/10) 22 lessons
7	7-Oct to 11-Oct	<b>Algebra, Pattern and sequence</b> Algebraic Expression Number machine Substituting into formulae	11/10: T1 Interim reports published
8	14-Oct to 18-Oct	Geometric patterns Using patterns Practical problems	14/10: Chung Yeung Festival 17/10: PTS Day
9	21-Oct to 25-Oct	Investigate different number sequences (New Trend Ch 2, H&H MYP 2 Ch 5)	21-25/10: Mid Term Break
10	28-Oct to 1-Nov	<b>Equation in one unknown</b> Simply algebraic expression (expansion and factorization) Equations Maintaining balance Inverse operations Building and undoing expressions Solving equations Equations with a repeated unknown (New Trend Ch 4, H&H MYP Ch 2 and 13) (Due 1/11) # Assessment 2 (B D) – Pattern Poster: The week of 28 Oct	Teaching period including pattern poster assessment: (7/10-1/11) 13 lessons (Will spend more time on polynomials later when doing linear equation in two unknowns)
11	4-Nov to 8-Nov	<b>Parallel lines and Angles, and triangle proofs</b> Points and lines Measuring and classifying angles and triangles Angle properties and angles of a triangle Geometric construction	6/11: VSA Terry Fox Run 2013 (TBC)??
12	11-Nov to 15-Nov	Angle pairs Parallel lines Angles of isosceles triangles Properties of polygons and quadrilaterals	13/11: Swim meet
13	18-Nov to 22-Nov	Angles of a quadrilateral Interior angles of polygons *Deductive geometry (triangle proofs) (New Trend Ch 3 & 13, H&H MYP2 Ch 2 and 14) # Assessment 3 (B) – Investigation: The week of 4 Nov # Assessment 3 (D) – Written: The week of 25 Nov	18-27/11: Rehearsal for concert 19/11: AMC 8 (Math contest) 21/11: PD Day Teaching Period including project assessment: (4/11-25/11) 15 lessons
14	25-Nov to 29-Nov	<b>Linear Equation in two unknowns (and Polynomials)*</b> Linear equations in two unknowns Graphs of linear equations in two unknowns	
15	2-Dec to 6-Dec	Points on the graphs of linear equations in two unknowns Form equations and solve problems of linear equations in two unknowns (New Trend Ch 11), (New Trend Ch 7, H&H MYP 2 Ch 10 & 23)* # Assessment 4 (A C) – SAW: 6-10/1	Teaching period: (26/11-13/12) 14 lessons
16	9-Dec to 13-Dec		
17	16-Dec to 20-Dec	Review week (4-5 lessons)	19/12: Christmas Carol Concert 20/12: Joint Assembly (half day school)
18	23-Dec to 27-Dec	Christmas and New Year Holiday	23/12-3/1: Christmas and New Year Holiday
19	30-Dec to 3-Jan		
20	6-Jan to 10-Jan	Summative Assessment Week	6-10/1: SAW

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21	13-Jan to 17-Jan	<b>Area and scale</b> Length, perimeter, area and volume Areas of polygons and composite shapes Ratio Writing ratios as fractions Equal ratios Proportions Using ratios to divide quantities Scale diagrams Gradient of slope (New Trend 9 and 12) (H&H MYP2 Ch 9, 11 and 12) <i># Assessment 5 (A C) – Dream House: The week of 3 Mar</i>	21/1: Chinese Cultural Day (Some students will loss 2 lessons for PW) 22-28/1: <b>Project Week</b> 29/1-7/2: Lunar New Year Holiday
22	20-Jan to 24-Jan		
23	27-Jan to 31-Jan		
24	3-Feb to 7-Feb		
25	10-Feb to 14-Feb		21/2: T1 report published
26	17-Feb to 21-Feb		23/2: Family Fun Day 24/2: Day after Family Fun Day (tentative) 25/2: PTS
27	24-Feb to 28-Feb		1-7/3: The Joint CIS/IB/NEASC Team Visit <b>Teaching period including a week for dream house assessment: (13/1-7/3)</b> <b>19 lessons</b>
28	3-Mar to 7-Mar		
29	10-Mar to 14-Mar	<b>Statistical graphs</b> Types of data Data collection Categorical and grouping of data Histograms Scatter diagrams Choosing appropriate statistical graphs The mean, median and mode (New Trend Ch 10 and H&H MYP2 Ch 20) <i># Assessment 6 (B D) – Brochure: The week of 31 Mar Due 4 April</i>	
30	17-Mar to 21-Mar		31/3: Sports Day 4/4 T2 interim reports published 5/4: Ching Ming Festival
31	24-Mar to 28-Mar		
32	31-Mar to 4-Apr		<b>Teaching Period including Brochure project assessment: (10/3-4/4)</b> <b>19 lessons</b>
33	7-Apr to 11-Apr	<b>Ratios and Rates</b> Ratios and Rates Comparing prices Using rates Average speed Density Converting rates *Golden ratio (New Trend Ch 12, H&H MYP 2 Ch 22) <i># Assessment 7 (B) – investigation: The week of 7/4</i> <i># Assessment 7 (D) – written: The week of 12/5</i>	8/4: PD Day – teacher led TBC 10/4: PTS
34	14-Apr to 18-Apr		17/4-25/4: Easter Holiday
35	21-Apr to 25-Apr		
36	28-Apr to 2-May		1/5: Labour Day 6/5: Buddha's Birthday
37	5-May to 9-May		<b>Teaching Period including assessment: (7/4-23/5)</b> <b>17 lessons</b>
38	12-May to 16-May		
39	19-May to 23-May	Catch up and Review for SAW Maths binder and e-portfolio	
40	26-May -30-May	Review for SAW	
41	2-Jun to 6-Jun	Summative Assessment Week <i># Assessment 8 (A C) – Written test: 3-6/6 (SAW)</i>	2/6: Dragon Boat Festival 3-6/6: SAW 7/6: Graduation Ceremony Rehearsal
42	9-Jun -13-Jun	<b>Getting ready for SLC (9-11/6 – 3 lessons)</b>	12/6: Student led conference
43	16-Jun to 20-Jun	<b>Logic &amp; Set*</b> Why aren't people logical? Board games Venn Diagram $p \wedge q$ $p \vee q$ If, then...and, or... (H&H MYP 2 Ch 21)*	19-23/6: IDU Week 20/6: T2 Reports published 21/6: Graduation Ceremony 25/6: Award Assembly 26/6: Secondary Assembly <b>Teaching Period: (9/6-27/6)</b> <b>9 lessons</b>
44	23-Jun to 27-Jun		
45	30-Jun to 4-Jul	30/6: Last day of school (finish at midday) 30/6: Whole school Assembly 1/7: HKSAR Establishment Day 1/7: Summer Holiday begins	

\* Topics with the star sign are extended topics

At the end of each term, need to spend 1 or 2 lesson(s) to check folder or e-portfolio (i-book)

Textbooks:

New Trend: New Trend Mathematics (second edition) S1A and S1B by Chan Mung Hung *et al.* Chung Tai Educational Press

H&H MYP 1: Mathematics for the international students 6 MYP 1 by Haese *et al.* Haese & Harris Publications

H&H MYP 2: Mathematics for the international students 7 MYP 2 by Haese *et al.* Haese & Harris Publications